01-2624A	Response	····· ABREMEN	Page 2
01-2624A		GENTAL FAX GENTER	
AMENDMENTS TO THE CLAIMS		JUL 0 5 2008	

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (original) A process comprising:
 - (a) contacting a fuel stream containing organosulfur impurities with an organic hydroperoxide in the presence of an oxidation catalyst to form an oxidized fuel stream, wherein a substantial portion of the organosulfur impurities are converted into sulfones and a substantial portion of the organic hydroperoxide is converted into an alcohol;
 - (b) removing the alcohol from the oxidized fuel stream to form an alcohol-reduced oxidized fuel stream; and
 - (c) extracting the sulfones from the alcohol-reduced oxidized fuel stream by solid-liquid extraction using a sulfone adsorbent.
- 2. (original) The process of claim 1 wherein the organic hydroperoxide is t-butyl hydroperoxide and the alcohol is t-butyl alcohol.
- 3. (original) The process of claim 1 wherein the oxidation catalyst is a titanium-containing silicon oxide catalyst.
- 4. (original) The process of claim 3 wherein the titanium-containing silicon oxide catalyst is titania-on-silica.
- 5. (original) The process of claim 1 wherein the alcohol is removed by distillation.
- 6. (original) The process of claim 1 wherein the sulfone adsorbent is selected from the group consisting of silicas, aluminas, and silica-aluminas.
 - 7. (original) A process comprising:
 - (a) extracting organonitrogen impurities from a fuel stream containing organonitrogen and organosulfur impurities whereby the nitrogen

01-2624A Response Page 3

content of fuel stream is reduced by at least 50 percent to produce a fuel stream having a reduced amount of organonitrogen impurities;

- (b) separating and recovering the fuel stream having a reduced amount of organonitrogen impurities;
- (c) contacting the separated fuel stream having a reduced amount of organonitrogen impurities with an organic hydroperoxide in the presence of a titanium-containing silicon oxide catalyst to form an oxidized fuel stream, wherein a substantial portion of the organosulfur impurities are converted into sulfones and a substantial portion of the organic hydroperoxide is converted into an alcohol;
- (d) removing the alcohol from the oxidized fuel stream to form an alcohol-reduced oxidized fuel stream; and
- (e) extracting the sulfones from the alcohol-reduced oxidized fuel stream by solid-liquid extraction using a sulfone adsorbent.
- 8. (original) The process of claim 7 wherein the organonitrogen impurities are extracted by solid-liquid extraction using at least one organonitrogen adsorbent.
- 9. (original) The process of claim 8 wherein the organonitrogen adsorbent is selected from the group consisting of aluminum oxide, silicon oxide, silica-alumina, zeolite Y, Zeolite X, ZSM-5, magnesium oxide, and sulfonic acid resin.
- 10. (original) The process of claim 7 wherein the organonitrogen impurities are extracted by liquid-liquid extraction using at least one polar solvent.
- 11. (original) The process of claim 10 wherein the polar solvent is selected from the group consisting of a C_1 - C_4 alcohol, a C_3 - C_8 ketone, water, and mixtures thereof.
- 12. (original) The process of claim 10 wherein the polar solvent is a mixture of methanol and water.
- 13. (original) The process of claim 7 wherein the organic hydroperoxide is t-butyl hydroperoxide and the alcohol is t-butyl alcohol.

01-2624A Response Page 4

- 14. (original) The process of claim 7 wherein the titanium-containing silicon oxide catalyst is titania-on-silica.
- 15. (original) The process of claim 7 wherein the alcohol is removed by distillation.
- 16. (original) The process of claim 1 wherein the sulfone adsorbent is selected from the group consisting of silicas, aluminas, and silica-aluminas.
 - 17. (cancelled)
 - 18. (cancelled)